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MEDICAL RESEARCH AND LANGUAGES

Man has always been in difficulties in understanding the other fellow's ideas ever since the general linguistic confusion among the builders of the Tower of Babel. Indeed, there are so many strange words and phrases in our native language that few of us can live without a dictionary of American English. There are many thousand words in a sailor's vocabulary which few physicians would understand. On the other hand, our medical English literature abounds in many special terms, eponyms, and newly coined words of Greek and Latin origin so that an average practitioner must look with aversion upon any publication dealing with anything outside the realm of his daily work.

To increase the confusion in our native language, there are a large number of every-day English words that are incorrectly employed with such frequency that it is a miracle how the authors of medical publications can transmit their ideas to the readers. Our language is a rather unsatisfactory means of expressing ideas and our literature is only a smashed-up mirror in which thoughts are more or less badly reflected. It falls to the reader's ingenuity to rebuild the image of the ideas which the author may have had in mind when writing his article.

If there are difficulties in reading English publications in the field of science, these difficulties are multiplied when reading a publication written in a foreign language. It is a hard mental task to reconstruct the thoughts arising in the brain of a foreign author, elaborated in a mind differing by education from ours, and influenced by race, inheritance, and environment.

How much trouble lies in wait for an American physician in reading, let us say, a German article on opto-kinetic nystagmus, or on the evolution of libido, even though the reader is familiar with German ophthalmological and psychoanalytical terms, and able to read without being entangled in the barbed wire of the long sentences in scientific German! How hard it is sometimes to get the essentials of a spirited and loquacious French publication, and separate the truth from the many adornments of speech!

We must read foreign literature, nevertheless, since medical science is international, and medical research itself is necessarily based upon the literature of the whole world. But why bother with the literature? Well, the concept of research as a systematic search for the unknown truth includes the recording of all known observations and facts, and an international bibliographical approach to any problem is the very first and fundamental step of any research. Since we do not write in an international scientific language, no person engaged in research can make his first step, no scientist can review the literature of his subject without a knowledge of at least four or five languages, and without knowing the methods and available aids at his disposal.

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It would be a poor compromise between his willingness and his educational lack in languages to employ someone, a non-professional linguist for the translation of foreign publications, because no layman translator is able to render into English the exact ideas of foreign scientists. One has to be a specialist in a subject in order to do justice to the bibliography of that subject. In other words, the research worker has to make his own bibliographical search and translation, and should not rely upon the commercial translating bureau, which with their second-hand information are really nothing but information bureaus, without any place in true research. It has often happened that such information as these last are able to furnish, has been neither exhaustive nor correct, with attendant serious difficulties to the scientist caught in erroneous statements or conclusions. Indeed, the unreliability of translations is so grave a matter that if one does not know languages or cannot here depend upon an associate, he had best abandon the idea of research and restrict himself to writing individual observations, case reports, and the like, or to a discussion of the practical side of the healing art.

Medicine has traveled a long distance since the time when any observation was unheard of, when any bedside study revealed a new truth, and when the casual specimen deposited on a glass slide was good for the discovery of a new organism. We are also far removed from the era when international sciences had an international language in Latin, and when everybody understood everybody in the literature of medicine. Today, languages are as necessary a tool for the medical research worker as the microscope or the analytical balance.

The man who is choosing research for his life task has to have a much broader educational foundation, a much wider perspective, and a much more comprehensive preliminary knowledge, including training in languages, than was formerly needed. Even though he may find a good coach in the medical librarian and excellent facilities in the medical libraries for laying the bibliographical floor of his investigation, the research scientist's lot is not an easy one. But what else can he expect? "Life is just a bowl of cherries" doesn't fit many occupations today except perhaps the window washer's.

C.F.M.